

Sub
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A viscoelastic characteristic value-measuring apparatus, using a split Hopkinson's bar, having an input bar (3) which is hit with an impact bar and on which a first strain gauge (7) and a second strain gauge (9) are installed; and an output bar (5) which is connected with the input bar (3) through a specimen and on which a third strain gauge (11) and a fourth strain gauge (13) are installed. The input bar (3) and the output bar (5) are made of a viscoelastic material. The length of said output bar is set to a range from 500mm to 2500mm both inclusive. The length of said input bar is set to a range from 1500mm to 2500mm both inclusive.